

AMENDMENTS TO THE CLAIMS

Claim 1 (Currently Amended) ~~A~~ Blow-blow moulding apparatus for the production of producing hollow bodies of plastic material, ~~material~~ obtained from respective preforms, comprising:

- ~~at~~ at least one a blow-moulding die (100) ~~containing~~ configured to contain a ~~respective~~ plurality of cavities, each cavity being configured for blow moulding respective preforms,
- ~~a~~ a main conduit (1) ~~for supplying~~ operable to supply gas into the plurality of cavities provided inside the at least one blow-moulding die,
- ~~a~~ a low-pressure gas supply source (103) connected to said main conduit (1) via a ~~respective~~ first supply channel (101),
- ~~a~~ a first controlled valve (102) ~~associated~~ provided to ~~said~~ the first supply channel,
- ~~a~~ a high-pressure gas supply source (104) connected to said main conduit (1) via a ~~respective~~ second supply channel (1-5), and
- ~~a~~ a second ~~suitably~~ controlled valve (106) ~~associated~~ provided to ~~said~~ the second supply channel,

~~characterized in that it~~ wherein the second supply channel includes ~~comprises means for a~~ differential pressure measuring device operable to detect and measure ~~detecting and measuring~~ the a presence or an absence of a gas flow passing through ~~said~~ the second supply channel (105) at a pre-determined time ~~moment~~ after the a blow-moulding phase has started.

Claim 2 (Canceled)

Claim 3 (Currently Amended) ~~Blow~~ The blow moulding apparatus according to claim 2 1, ~~characterized in that said~~ wherein the differential pressure measuring device ~~comprises~~ includes

- ~~two~~ at least two ~~at least~~ partially hollow tubes (3, 4) arranged so as to extend crosswise across ~~said~~ the second supply channel,

~~—said the~~ at least two partially hollow tubes being positioned in different sections, ~~i.e.~~
such that one partially hollow tube is (3) situated at a more downstream location and the other (4)
partially hollow tube is situated at a more upstream location along the flowpath of ~~said the~~
second supply channel (105),

~~—each each such~~ partially hollow tube being provided with a respective port (5, 6) on a
side of ~~the a~~ respective surface thereof, and

~~—each each one of said~~ respective port ports being associated with a respective pressure
sensor (7, 8) for sensing the pressure as measured inside ~~the~~ each respective partially hollow
tube.

Claim 4 (Currently Amended) ~~Blow~~ The blow moulding apparatus according to claim 3,
~~characterized in that wherein~~ one respective port (5) is oriented against the a direction of gas flow
~~of the gas flowing in from the said high-pressure gas supply source (104), and the other~~
respective port (6) is oriented in agreement with said the direction of gas flow flowing in from
said high-pressure gas supply source gas flow direction, in such a manner that ~~said the~~ respective
ports are exposed to at least part of ~~the a~~ dynamic pressure and at least part of ~~the a~~ dynamic
negative pressure entrained by ~~said the~~ gas flow, respectively.

Claim 5 (Currently Amended) ~~Blow~~ The blow moulding apparatus according to claim 21,
~~characterized in that said wherein~~ the differential pressure measuring device comprises: includes

~~—two two~~ hollow, mutually aligned tubes (51, 52) arranged so as to extend crosswise
across ~~said the~~ second supply channel (105), substantially in the same section thereof,

~~—each each such~~ hollow, mutually aligned tube being provided with a respective port (53,
54) on a side of ~~the a~~ respective surface thereof, said the respective ports being aligned with ~~the a~~
direction of gas flow of said gas, but oriented in a substantially opposite manner,

~~—each each one of said the~~ respective ports being associated with a respective pressure
sensor (7, 8) for sensing the pressure as measured inside ~~the~~ each respective hollow, mutually
aligned tube.

Claim 6 (Currently Amended) ~~Blow-~~The blow moulding apparatus according to claim 21, ~~characterized in that wherein said the~~ differential pressure measuring device ~~comprises:includes~~

—a a single hollow tube (62) arranged so as to extend crosswise across ~~said the~~ second supply channel,

—~~said the~~ single hollow tube being provided with two distinct ports (60, 61) in ~~the a~~ surface thereof,

—~~in in~~ in which a first port (60) is oriented against ~~the a~~ direction of gas flow of the gas flowing in from the said high-pressure gas supply source, and ~~the other a~~ second port (61) is oriented in agreement with ~~said the~~ direction of gas flow flowing in from said high-pressure gas supply source direction, in such a manner that ~~said the~~ two distinct ports are exposed to at least part of ~~the a~~ dynamic pressure and at least part of ~~the a~~ dynamic negative pressure entrained by ~~said the~~ gas flow, respectively.

Claim 7 (Currently Amended) ~~Blow-~~The blow moulding apparatus according to claim 6, ~~characterized in that wherein said the~~ single ~~transversally arranged hollow~~ tube (62) is closed internally by an appropriate partition wall (63) ~~provided~~ configured at a location between ~~said the~~ first port (60) and ~~said the~~ second port (61), in such a manner that in ~~said the~~ single hollow tube there are created two distinct chambers (65, 66) opening independently into ~~said the~~ second supply channel (105).

Claim 8 (Currently Amended) ~~Blow-~~The blow moulding apparatus according to claim 5 ~~characterized in that wherein said single tube or said the two~~ mutually aligned tubes ~~is/are~~ ~~provided with~~ include two non-communicating inner cavities, and ~~said the~~ differential pressure measuring device (10) ~~comprises:includes~~ two distinct pressure sensors ~~for operable to detect~~ ~~detecting the a~~ pressure within ~~said the~~ two non-communicating inner cavities.

Claim 9 (Currently Amended) ~~Blow-~~The blow moulding apparatus according to claim 6,

~~characterized in that wherein said the single hollow tube or said two tubes is/are provided with~~
~~includes~~ two non-communicating inner cavities, and said ~~the~~ differential pressure measuring
device (10) ~~comprises~~ includes two distinct pressure sensors ~~for detecting~~ operable to detect the
pressure within said ~~the~~ two non-communicating inner cavities.

Claim 10 (Currently Amended) ~~Blow~~ The blow moulding apparatus according to claim 7,
~~characterized in that wherein said the single hollow tube or said two tubes is/are provided with~~
~~includes~~ two non-communicating inner cavities, and said ~~the~~ differential pressure measuring
device (10) ~~comprises~~ includes two distinct pressure sensors ~~for detecting~~ operable to detect the
pressure within said ~~the~~ two non-communicating inner cavities.

Claim 11 (New) The blow moulding apparatus according to claim 1, further comprising a
processing means for receiving a measurement signal from the differential pressure measure device
and for generating a control signal regarding a defective container detected during blow-moulding.